

In The Claims

Please amend the claims as follows:

Claims

1. (CURRENTLY AMENDED) A climate chamber, ~~in particular for chemical and/or biological samples,~~ comprising

a housing ~~(24)~~ defining a climate compartment ~~(26)~~,

an analysis device ~~(28)~~ arranged at least partially in the climate compartment for analyzing the sample, and

an inlet opening ~~(38)~~ provided in the housing ~~(24)~~ for supplying a conditioning medium flow ~~(42)~~,

wherein the medium flow ~~(42)~~ flows at least partially against the analysis device ~~(28)~~ and/or a sample carrier ~~(36)~~ arranged in the climate compartment ~~(26)~~.
2. (CURRENTLY AMENDED) The climate chamber according to claim 1, ~~characterized by~~ further comprising a directing device for directing the medium flow ~~(42)~~.
3. (CURRENTLY AMENDED) The climate chamber according to claim 1 or 2, wherein said ~~characterized in that~~ the medium flow ~~(42)~~ is directed such that the medium flow ~~(42)~~ flows against a lower side ~~(44)~~ of the sample carrier.

4. (CURRENTLY AMENDED) The climate chamber according to ~~one of~~ claims 1-3, ~~characterized in that the~~ wherein said inlet opening ~~(38)~~ is arranged laterally offset below the sample carrier ~~(36)~~ when the sample carrier ~~(36)~~ is horizontally arranged.
5. (CURRENTLY AMENDED) The climate chamber according to ~~one of~~ claims 1-4, ~~characterized by~~ further comprising an approach flow angle (α) of 30°-60° relative to the sample carrier ~~(36)~~.
6. (CURRENTLY AMENDED) The climate chamber according to ~~one of~~ claims 1-5, ~~characterized in that the~~ wherein said medium flow ~~(42)~~ is directed such that at least 50 %-70 % of the medium flow ~~(42)~~ flows against the analysis device ~~(28)~~ and/or the sample carrier ~~(36)~~.
7. (CURRENTLY AMENDED) The climate chamber according to ~~one of~~ claims 1-6, ~~characterized in~~ further comprising ~~that~~ condensate-sensitive components ~~(30,32,34)~~ of the analysis device ~~(28)~~ being ~~are~~ located in the medium flow ~~(42)~~.
8. (CURRENTLY AMENDED) The climate chamber according to ~~one of~~ claims 1-7, ~~characterized by~~ further comprising a temperature sensor ~~(46)~~ arranged near the sample carrier ~~(36)~~, ~~in particular near the lower side (44) of the sample carrier (36)~~.

9. (CURRENTLY AMENDED) The climate chamber according to ~~one of~~ claims 1-8, ~~characterized by~~ further comprising an outlet opening ~~(48)~~ provided in the housing ~~(24)~~, wherein said outlet opening ~~(48)~~ preferably being arranged substantially opposite the inlet opening ~~(38)~~.
10. (CURRENTLY AMENDED) The climate chamber according to ~~one of~~ claims 1-9, ~~characterized in that~~ wherein the housing is configured such that it promotes an optimum flow.
11. (CURRENTLY AMENDED) The climate chamber according to ~~one of~~ claims 1-10, ~~characterized in that~~ further comprising adjacent housing walls ~~(12,14,16,18,20,22)~~ are arranged at an angle of at least 90°, ~~preferably at least 120°~~, relative to each other.
12. (CURRENTLY AMENDED) A climate control system means comprising a climate chamber, said climate chamber comprising a housing defining a climate compartment, an analysis device arranged at least partially in the climate compartment for analyzing the sample, and an inlet opening provided in the housing for supplying a conditioning medium flow, wherein the medium flow flows at least partially against the analysis device and/or a sample carrier arranged in the climate compartment ~~according to one of claims 1-11,~~
- wherein the inlet opening ~~(38)~~ has connected therewith a climate control device; a channel ~~(110)~~ through which flows a gaseous medium which is to be conditioned; a steam chamber ~~(120)~~ having an inlet opening ~~(134)~~ and an outlet opening ~~(138)~~ connected with said channel; a steam generator or

~~means (126)~~ connected with said steam chamber ~~(120)~~; and a controller means (140) arranged at the inlet opening ~~(134)~~ and/or the outlet opening ~~(138)~~ for controlling the quantity of steam fed from the steam chamber ~~(120)~~ to the channel ~~(110)~~.

13. (CURRENTLY AMENDED) The climate control ~~means~~ system according to claim 12, ~~characterized in that~~ wherein said the controller means (140) is adapted to control the opening cross section of the inlet opening ~~(134)~~ and/or the outlet opening ~~(138)~~.

14. (CURRENTLY AMENDED) The climate control ~~means~~ system according to claim 12 ~~or 13~~, ~~characterized in that~~ wherein the inlet opening ~~(134)~~ is connected with the channel ~~(110)~~ such that a portion of the medium to be conditioned flows into the steam chamber ~~(120)~~.

15. (CURRENTLY AMENDED) The climate control ~~means~~ system according to ~~one of~~ claims 12-14, ~~characterized in that~~ wherein the steam generator ~~on means (126)~~ comprises a heater ing means for heating the medium to be evaporated.

16. (CURRENTLY AMENDED) The climate control ~~means~~ system according to ~~one of~~ claims 12-15, ~~characterized by~~ further comprising a flow-producing ~~means (114)~~ for producing the medium flow in the channel ~~(110)~~.

17. (CURRENTLY AMENDED) The climate control means system according to ~~one of claims 12-16, characterized by~~ further comprising a filter means (116) connected with the channel (110).

18. (CURRENTLY AMENDED) The climate control means system according to ~~one of claims 12-17, characterized by~~ further comprising a conditioning means (118) connected with the channel (110).